

CITY OF TEMPE
PUBLIC WORKS DEPARTMENT
DIVISION OF ENGINEERING
LIFT STATION ASSESSMENT
ALAMEDA LIFT STATION
CAMELOT LIFT STATION
CARVER LIFT STATION
KNOX LIFT STATION
PROJECT NO. 3205841
VOLUME 3 OF 3



REVISIONS	
NO.	DESCRIPTION

UTILITY INFORMATION

SALT RIVER PROJECT-WATER	DATE
SALT RIVER PROJECT-POWER	DATE
SOUTHWEST GAS CORP.	DATE

APPROVED

Andrew Ching
DEPUTY PUBLIC WORKS DIRECTOR/
CITY ENGINEER

1/15/15
DATE

NOT REQUIRED
MARICOPA COUNTY
ENVIRONMENTAL SERVICES
DEPARTMENT

DATE

ENGINEER:
TERESA A. VALENTINE, PhD, PE, BCEE
VALENTINE ENVIRONMENTAL ENGINEERS, LLC
15845 SOUTH 46TH STREET, SUITE 144
PHOENIX, AZ 85048
PHONE: (480)283-8991



REFERENCE 1/4" SECTION LOCATION:	AS-BUILT INFORMATION IS INCLUDED IN THESE AREAS ON THIS SET OF DRAWINGS:	PERMITS REQUIRED FOR THIS SET OF DRAWINGS:
	<input type="checkbox"/> FIRE LINE <input type="checkbox"/> SEWER <input type="checkbox"/> WATER <input type="checkbox"/> WATER-RECLAIMED <input type="checkbox"/> STORM DRAIN/DRYWELL <input type="checkbox"/> PAVING <input type="checkbox"/> OFFSITE (CULVERTS) <input type="checkbox"/> GRADING/DRAINAGE	<input type="checkbox"/> CITY IRRIG. <input type="checkbox"/> BIKE PATH <input type="checkbox"/> LANDSCAPE/SPRINKLER <input type="checkbox"/> STREET LIGHTS <input type="checkbox"/> BUILDINGS <input type="checkbox"/> FLOODPLAIN <input type="checkbox"/> OTHER
AS-BUILT PLANS CHECKED FOR FIELD CHANGES		PARCEL # PROJECT # 3205841
INSPECTOR:	DATE:	

SHT. 1 OF 18

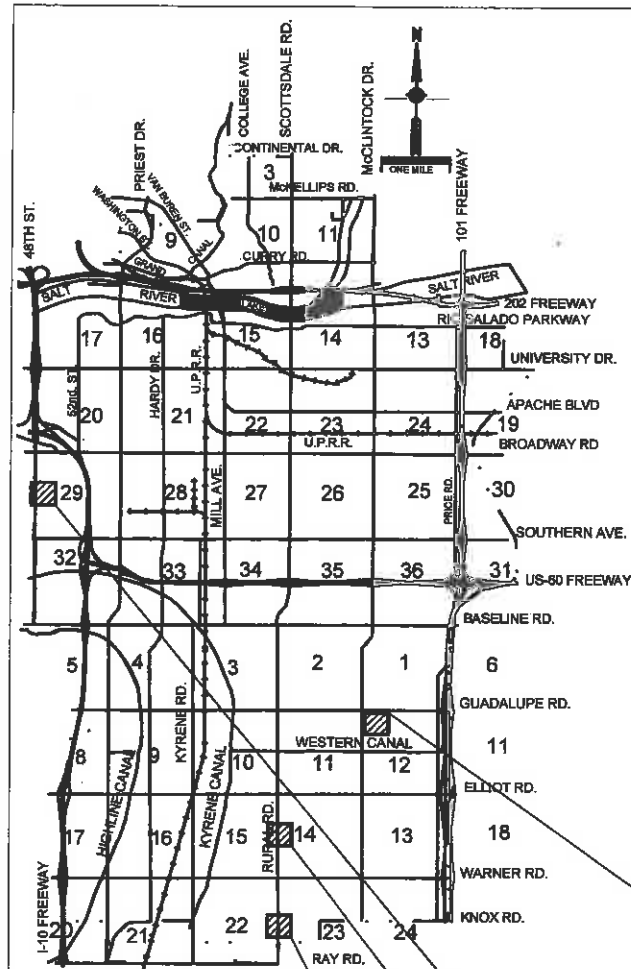
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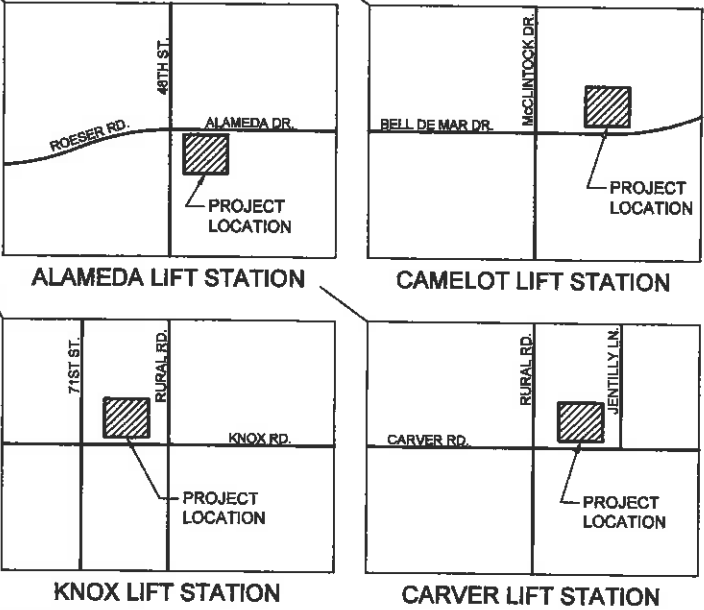
DS#

PROJECT # 3205841

3205841



MAYOR
MARK W. MITCHELL
VICE MAYOR
ONNIE SHEKERJIAN
CITY COUNCIL
ROBIN ARREDONDO-SAVAGE
SHANA ELLIS
KOLBY GRANVILLE
JOEL NAVARRO
COREY D. WOODS
CITY MANAGER
ANDREW CHING
CITY ENGINEER
ANDREW H.Y. GOH, P.E.



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GENERAL AND SITE PLAN NOTES

- 1 ALL CONSTRUCTION UNDER THE PUBLIC WORKS PERMIT SHALL CONFORM TO THE CITY OF TEMPE SUPPLEMENT TO THE MAG SPECIFICATIONS AND DETAILS, MARICOPA ASSOCIATION OF GOVERNMENTS UNIFORM STANDARD SPECIFICATIONS AND DETAILS (MAG SPECIFICATIONS AND DETAILS), AND CITY OF TEMPE TRAFFIC BARRICADE MANUAL.
- 2 A PERMIT ISSUED BY THE ENGINEERING DIVISION SHALL BE REQUIRED FOR ALL WORK IN THE CITY OF TEMPE RIGHTS-OF-WAY.
- 3 THE CITY SHALL BE NOTIFIED PRIOR TO ANY CONSTRUCTION WORK. CALL THE ENGINEERING REQUEST LINE AT (480) 350-8475 AT LEAST ONE BUSINESS DAY BEFORE START OF CONSTRUCTION TO REQUEST INSPECTIONS. CONSTRUCTION WORK CONCEALED WITHOUT INSPECTION BY THE CITY SHALL BE SUBJECT TO EXPOSURE AT THE CONTRACTOR'S EXPENSE.
- 4 NOT USED.
- 5 LOCATION OF ALL WATER VALVES, MANHOLES, AND CLEANOUTS MUST BE REFERENCED AT ALL TIMES DURING CONSTRUCTION AND MADE AVAILABLE TO THE WATER AND WASTEWATER DIVISION.
- 6 NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT, AND SIDEWALKS HAVE BEEN SWEEPED CLEAN OF ALL DIRT AND DEBRIS AND ALL SURVEY MONUMENTS ARE INSTALLED ACCORDING TO THE PLANS.
- 7 THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION, UTILITY RELOCATION, CONSTRUCTION STAKING, OR "AS-BUILT" PLANS.
- 8 ALL EXISTING STREET MONUMENTS MUST BE PRESERVED. PRIOR TO CONSTRUCTION, MONUMENTS WILL BE REFERENCED HORIZONTALLY AND VERTICALLY. AFTER CONSTRUCTION, MONUMENTS SHALL BE RESET AND FIELD NOTES, INCLUDING NEW ELEVATION, SHALL BE FILED WITH THE CITY.
- 9 NOT USED.
- 10 NOT USED.
- 11 ALL ON-SITE PRIVATE UTILITIES AND DETAILS SHOWN IN THESE PLANS ARE FOR REFERENCE ONLY AND ARE NOT APPROVED ON THESE DRAWINGS. SEE PLANS THAT ARE APPROVED BY BUILDING SAFETY FOR ON-SITE PRIVATE UTILITIES.
- 12 THIS SET OF PLANS HAS BEEN REVIEWED FOR COMPLIANCE WITH CITY REQUIREMENTS PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS. HOWEVER, SUCH REVIEW SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN PLANS FOUND TO BE IN VIOLATION OF ANY LAW OR ORDINANCE. IT IS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER SEALING AND SIGNING THESE PLANS TO BE CERTAIN THAT THEY ARE IN FULL COMPLIANCE WITH CITY OF TEMPE STANDARDS, DETAILS, CRITERION, LAWS, AND ORDINANCES.
- 13 THE CITY DOES NOT WARRANT ANY QUANTITIES SHOWN ON THESE PLANS.
- 14 THE CITY APPROVAL IS FOR GENERAL LAYOUT IN THE RIGHT-OF-WAY, ON-SITE GRADING, DRAINAGE, WATER AND SEWER. THIS PLAN CHECK APPROVAL IS VALID FOR A PERIOD OF ONE YEAR FROM APPLICATION DATE. CONSTRUCTION PERMITS SHALL BE OBTAINED DURING THIS PERIOD OR THE PLANS SHALL BE RESUBMITTED FOR REVIEW AND APPROVAL. ONE 6 MONTH EXTENSION MAY BE GRANTED UPON REQUEST IF THE REQUEST IS MADE PRIOR TO THE EXPIRATION OF THE ONE YEAR PERIOD AT A COST OF 25% OF THE TOTAL PLAN CHECK FEE. PERMITS MUST THEN BE ISSUED WITH 6 MONTHS AND THEY WILL BE VALID FOR ONE YEAR FROM ISSUE DATE, OTHERWISE, THE PROJECT EXPIRES AND PERMITS ARE VOIDED.
- 15 AN APPROVED SET OF PLANS SHALL BE AVAILABLE ON THE JOB SITE AT ALL TIMES.
- 16 NOT USED.
- 17 NOT USED.
- 18 NOT USED.
- 19 NOT USED.
- 20 THE CONTRACTOR SHALL CONTACT ARIZONA BLUE STAKE AT 602-283-1100 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
- 21 THE CONTRACTOR SHALL BARRICADE CONSTRUCTION SITES AT ALL TIMES PER THE CITY OF TEMPE TRAFFIC BARRICADE MANUAL. WHEN REQUIRED BY THE CITY, A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED FOR APPROVAL IN ADVANCE OF CONSTRUCTION.
- 22 THE CONTRACTOR MAY OBTAIN A FIRE HYDRANT METER FOR CONSTRUCTION WATER FROM CUSTOMER SERVICES. THIS METER SHOULD BE ORDERED TWO WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. THE UNLAWFUL REMOVAL OF WATER FROM A FIRE HYDRANT IS A VIOLATION OF THE MUNICIPAL CODE, PUNISHABLE BY FINE AND/OR IMPRISONMENT.
- 23 ALL BROKEN OR DISPLACED EXISTING CONCRETE CURB, GUTTER, OR SIDEWALK SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE CITY OF TEMPE ENGINEERING DIVISION INSPECTOR.
- 24 ALL CITY FACILITIES, ALLEYS AND ROADWAY SURFACES DAMAGED BY DEVELOPER/CONTRACTOR DURING CONSTRUCTION SHALL BE REPAIRED/RESTORED TO THE SATISFACTION OF THE CITY OF TEMPE ENGINEERING DIVISION INSPECTOR PER THE RESPECTIVE CITY AND/OR MAG STANDARD DETAIL.

PAVING PLAN NOTES

1. NOT USED.
2. NOT USED.
3. NOT USED.
4. NOT USED.
5. NOT USED.
6. NOT USED.

SEWER, WATER and UTILITY PLAN NOTES



1. THE CONTRACTOR SHALL UNCOVER ALL EXISTING LINES BEING TIED INTO TO VERIFY THEIR LOCATION, SIZE, MATERIAL TYPE, ETC. PRIOR TO CONSTRUCTION OF NEW LINES. THE CONTRACTOR WILL LOCATE OR HAVE LOCATED ALL EXISTING UNDERGROUND PIPELINES, TELEPHONE AND ELECTRIC CONDUITS, AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND WILL OBSERVE ALL POSSIBLE PRECAUTIONS TO AVOID DAMAGE TO SAME. CALL BLUE STAKE AT 602-283-1100.
2. NOT USED.
3. NOT USED.
4. NOT USED.
5. NOT USED.
6. NOT USED.
7. NOT USED.
8. NOT USED.
9. NOT USED.
10. NOT USED.
11. ALL VALVES SHALL BE FLANGED TO FITTINGS, PREFERABLY TEES.
12. THRUST & ANCHOR BLOCKS PER MAG STANDARD DETAIL 301, 380 & 381.
13. ONLY THE CITY OF TEMPE WATER MANAGEMENT DIVISION PERSONNEL SHALL OPERATE ANY EXISTING VALVES OR ANY VALVE CONNECTING NEW WORK TO EXISTING CITY WATER SYSTEM.
14. NOT USED.
15. NOT USED.
16. NOT USED.
17. NOT USED.
18. NOT USED.

ON SITE DRAINAGE PLAN NOTES

1. NOT USED.
2. NOT USED.
3. NOT USED.
4. NOT USED.

STREET LIGHTING PLAN NOTES

1. NOT USED.
2. NOT USED.
3. NOT USED.
4. NOT USED.
5. NOT USED.
6. NOT USED.
7. NOT USED.
8. NOT USED.

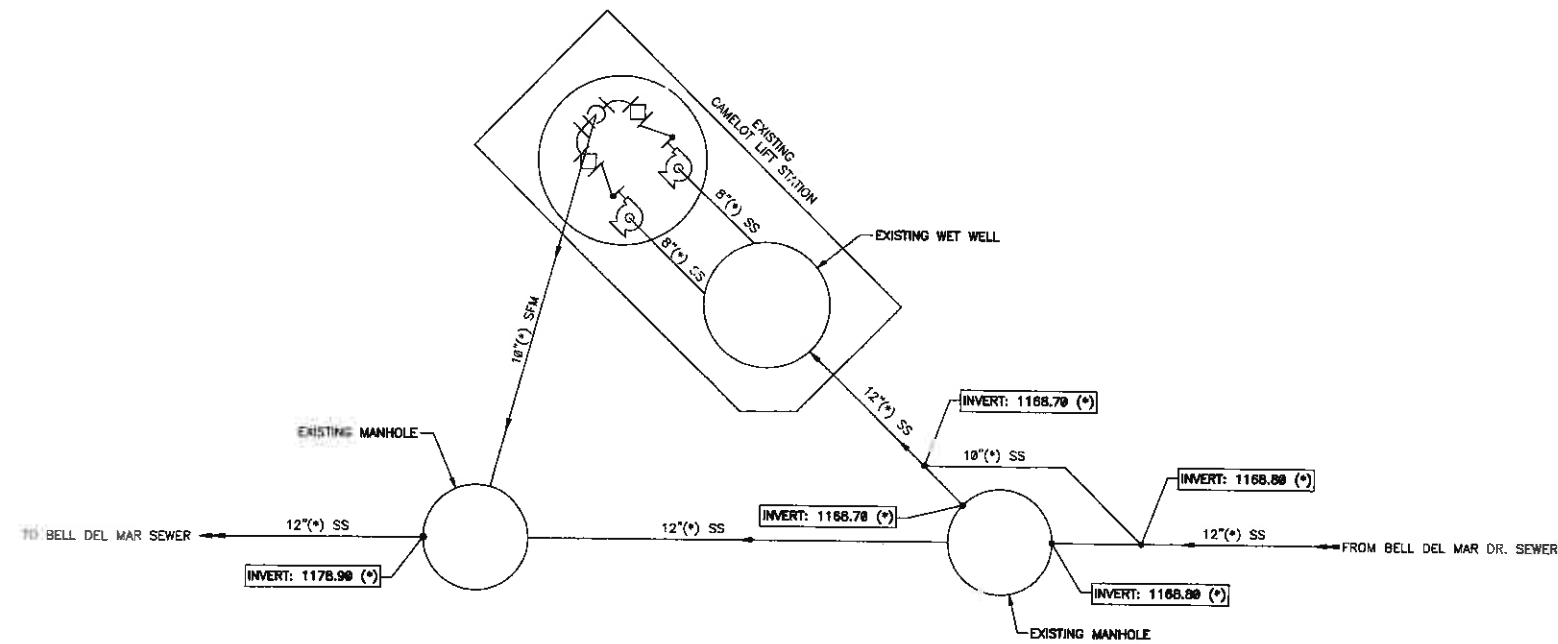
			
MARK	DATE	DESCRIPTION	BY
DEPARTMENT OF PUBLIC WORKS			
CITY OF TEMPE			
DIVISION OF ENGINEERING			
P.O. BOX 5088-TEMPE, AZ 85280			
SURVEYED: NONE	DATE	DESCRIPTION	DATE
DESIGNED: ME		CITY OF TEMPE	
DRAWN: CBJDD		STANDARD GENERAL NOTES	PROJECT NO.
CHECKED: TAV		Tempe, Arizona	3205841
SCALE:		LIFT STATION ASSESSMENT	SHT 2 OF 18



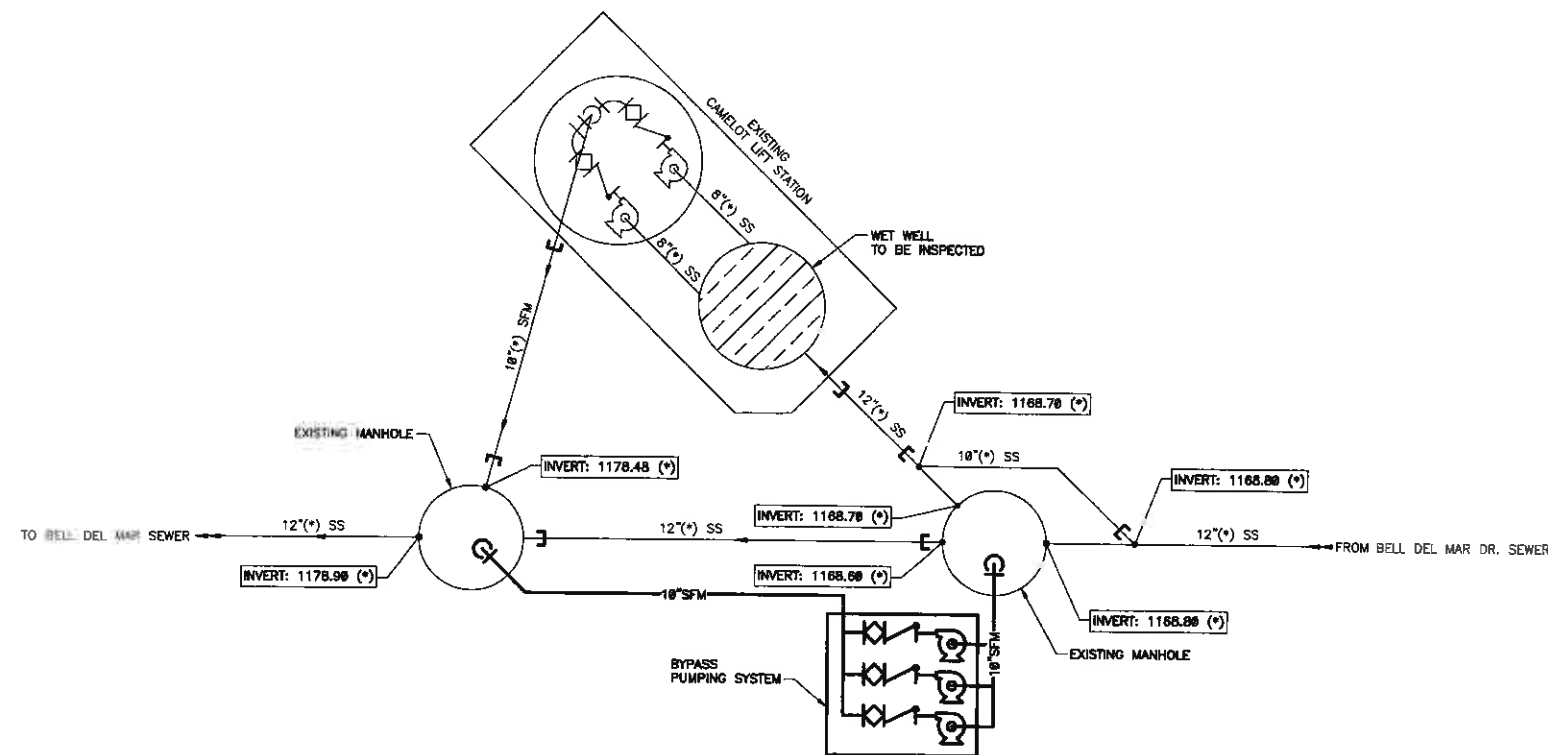
(*) INDICATES DIMENSIONS, DISTANCES, COORDINATES OR ELEVATIONS TO BE SURVEYED AND FIELD VERIFIED BY THE CONTRACTOR PRIOR TO INITIATING ANY OF THE WORK.



MARK	DATE	DESCRIPTION	BY
DEPARTMENT OF PUBLIC WORKS			
CITY OF TEMPE			
DIVISION OF ENGINEERING			
P.O. BOX 5002, TEMPE, AZ 85280			
SURVEYED:	NONE	DESCRIPTION	DATE
DESIGNED:	ME	EXISTING & PROPOSED	PROJECT NO.
DRAWN:	CB/JDD	PROCESS FLOW DIAGRAM	
CHECKED:	TAV	ALAMEDA LEFT STATION Tempe, Arizona	3205841
SCALE:		LIFT STATION ASSESSMENT	SHT 3 of 18



EXISTING PROCESS FLOW DIAGRAM

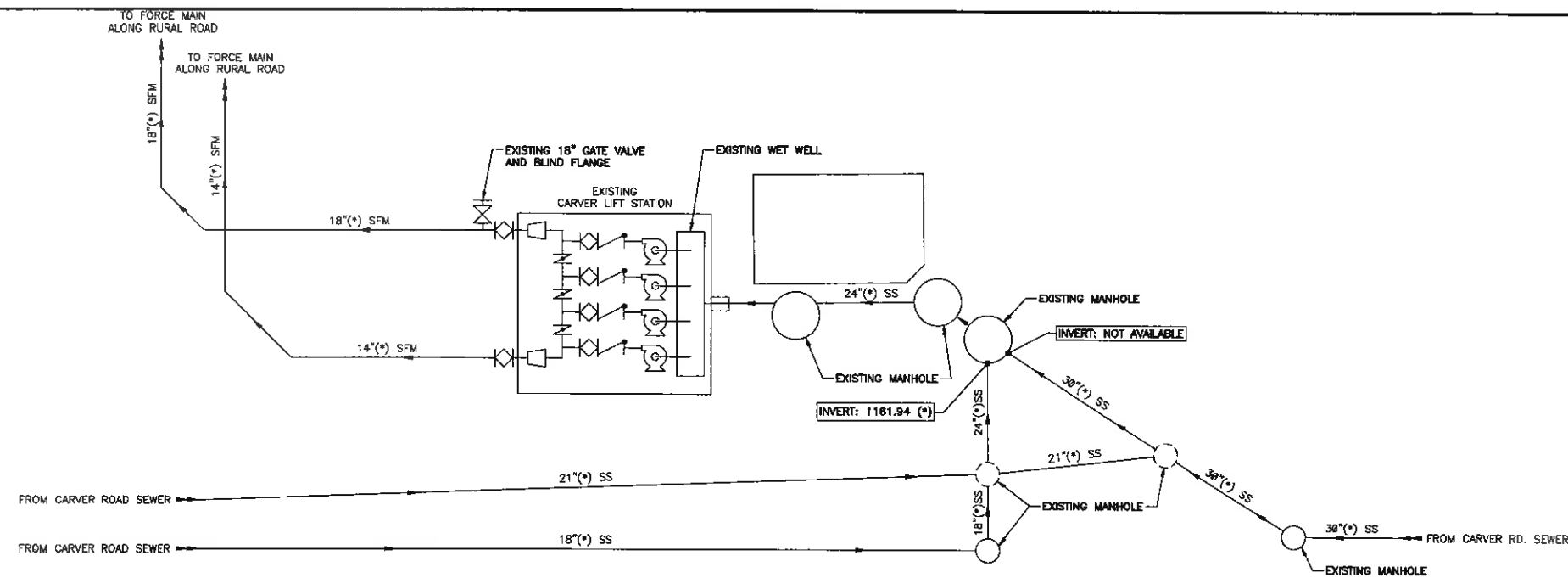


PROPOSED PROCESS FLOW DIAGRAM

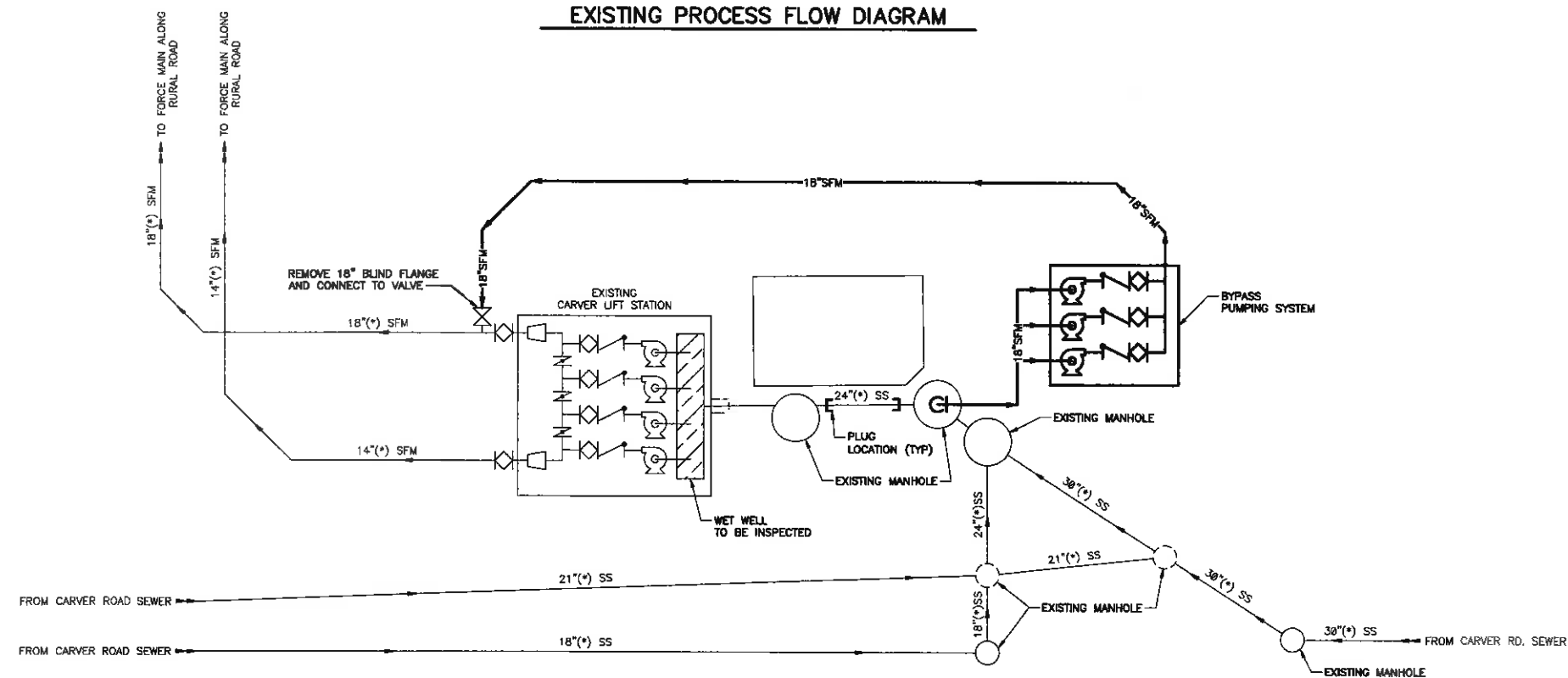
LEGEND	
PROPOSED	PROPOSED
	90° BEND (DOWN)
	TEE (DOWN)
	UNION
	FLOW METER
	SLIDE GATE
	SLUICE GATE
	STOP LOG
	HOSE BIB
	MOTORIZED
	SOLENOID VALVE
	PRESSURE GAUGE
	PUMP
	PRESSURE REDUCING VALVE
	BALL VALVE
	BUTTERFLY VALVE
	GATE VALVE
	GLOBE VALVE
	SWING CHECK VALVE
	PLUG VALVE
	AIR ACTUATED VALVE
	YARD HYDRANT
	AIR RELEASE/VACUUM RELIEF VALVE
	SURGE RELIEF VALVE
	PLUG
	PIPE (SIZE AS LABELED)
	ABANDONED PIPE (SIZE AS LABELED)
	TEMPORARY BYPASS PIPE (SIZE AS LABELED)
	BLIND FLANGE
	FLANGED CONNECTION
	PUMP CONTROL VALVE
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	HARNESSED COUPLING
	PRESSURE RELIEF VALVE
	FLOW CONTROL VALVE
	SURGE ANTICIPATOR VALVE
	PRESSURE TRANSDUCER
	CAP
	DRAIN
	FLOW DIRECTION
	AIR RELEASE VALVE ASSEMBLY
	FIRE HYDRANT
	HOT TAP TEE

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MARK	DATE	DESCRIPTION	BY
DEPARTMENT OF PUBLIC WORKS CITY OF TEMPE DIVISION OF ENGINEERING P.O. BOX 4002, TEMPE, AZ 85280			
SURVEYED: NONE	DESIGNED: ME	EXISTING & PROPOSED PROCESS FLOW DIAGRAM CAMELOT LIFT STATION Tempe, Arizona	DATE: 3/20/16 PROJECT NO.: 3205841
DRAWN: CBA/DD	CHECKED: TAV	SCALE:	SHT 4 OF 18



EXISTING PROCESS FLOW DIAGRAM



PROPOSED PROCESS FLOW DIAGRAM



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DEPARTMENT OF PUBLIC WORKS
CITY OF TEMPE
 DIVISION OF ENGINEERING
 P.O. BOX 5002, TEMPE, AZ 85280

SURVEYED: NONE	EXISTING & PROPOSED SEQUENCE OF WORK	DATE	DATE
DESIGNED: ME	CARVER LIFT STATION Tempe, Arizona	PROJECT NO.	
DRAWN: CB/JDD		3205841	
CHECKED: TAV		SHT 5 OF 18	
SCALE:	LIFT STATION ASSESSMENT		

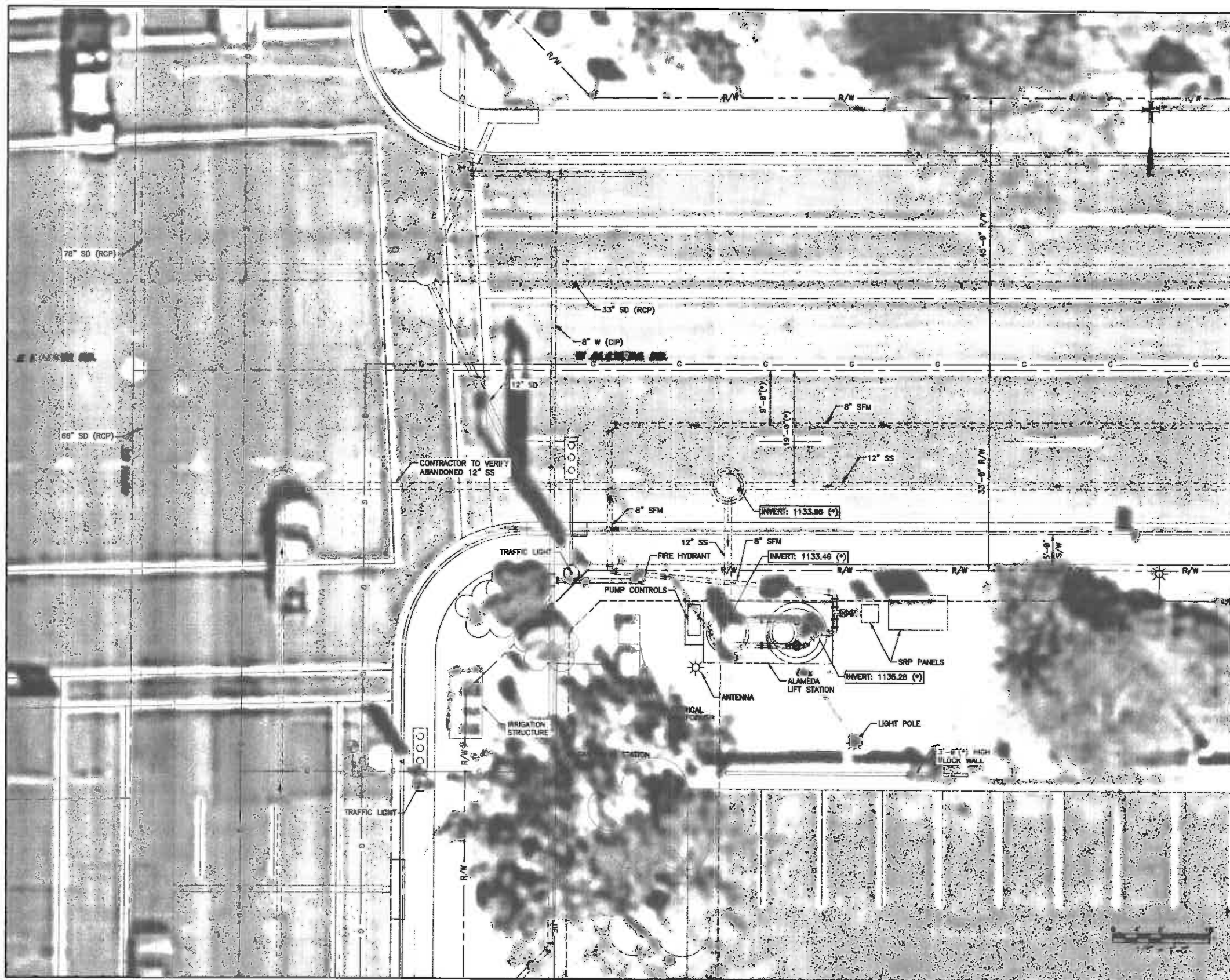
3205841

5 OF 18



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6 of 18



CONSTRUCTION NOTES

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(R) INDICATES RESTRAINED JOINT.
- GENERAL NOTES:
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 2. ALL PIPING, JOINTS, FITTINGS, VALVES AND APPURTENANCES SHALL BE FULLY RESTRAINED.

LEGEND:
— R/W — RIGHT OF WAY
— US — UTILITY ELECTRICAL
— G — UTILITY GAS
— PL — PROPERTY LINE

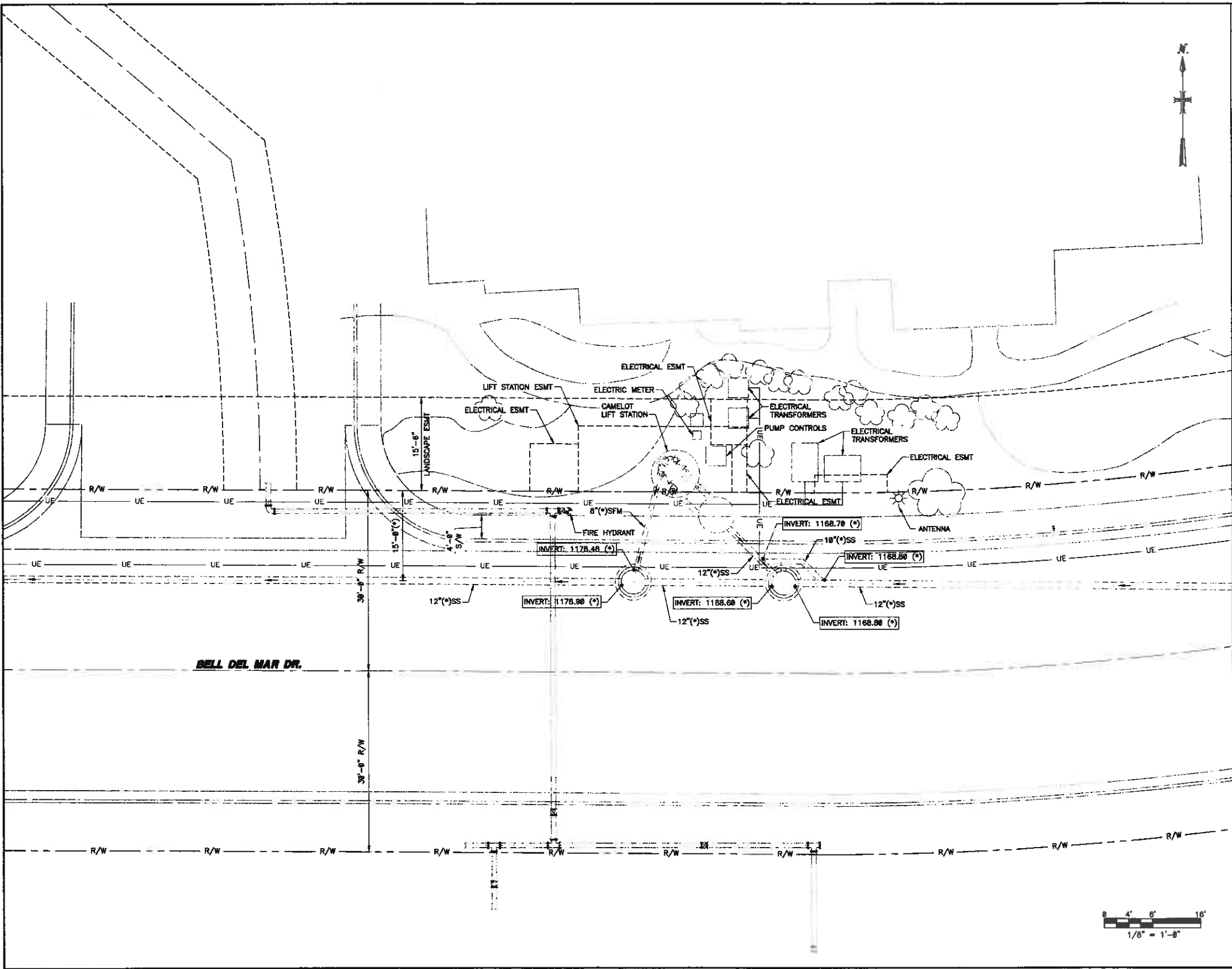
ABBREVIATIONS:
SS SANITARY SEWER
SFM SANITARY FORCE MAIN
SD STORM DRAIN
W WATER
FA FOUL AIR
S/W SIDEWALK



MARK	DATE	DESCRIPTION	BY

DEPARTMENT OF PUBLIC WORKS
CITY OF TEMPE
DIVISION OF ENGINEERING
P.O. BOX 5002, TEMPE, AZ 85260

SURVEYED: NONE	EXISTING SITE AERIAL	DATE	DATE
DESIGNED: ME	ALAMEDA LIFT STATION	PROJECT NO.	
DRAWN: CB/DD	Tempe, Arizona	3205841	
CHECKED: TAV			
SCALE:	LIFT STATION ASSESSMENT	SHT	8 OF 18



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- FA — FOUL AIR
- S/W — SIDEWALK

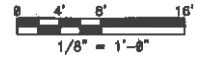
ABBREVIATIONS:

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MARK	DATE	DESCRIPTION	BY

DEPARTMENT OF PUBLIC WORKS	
CITY OF TEMPE	
DIVISION OF ENGINEERING	
P.O. BOX 9002, TEMPE, AZ 85280	
SURVEYED: NONE	DATE
DESIGNED: ME	PROJECT NO.
DRAWN: CB/UD	3205841
CHECKED: TAV	DATE
SCALE:	SHT 9 OF 18



3205841



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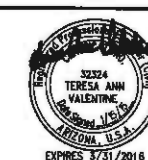
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ABBREVIATIONS:

SS SANITARY SEWER
SFM SANITARY FORCE MAIN
SD STORM DRAIN
W WATER
FA FOUL AIR
S/W SIDEWALK



MARK	DATE	DESCRIPTION	BY

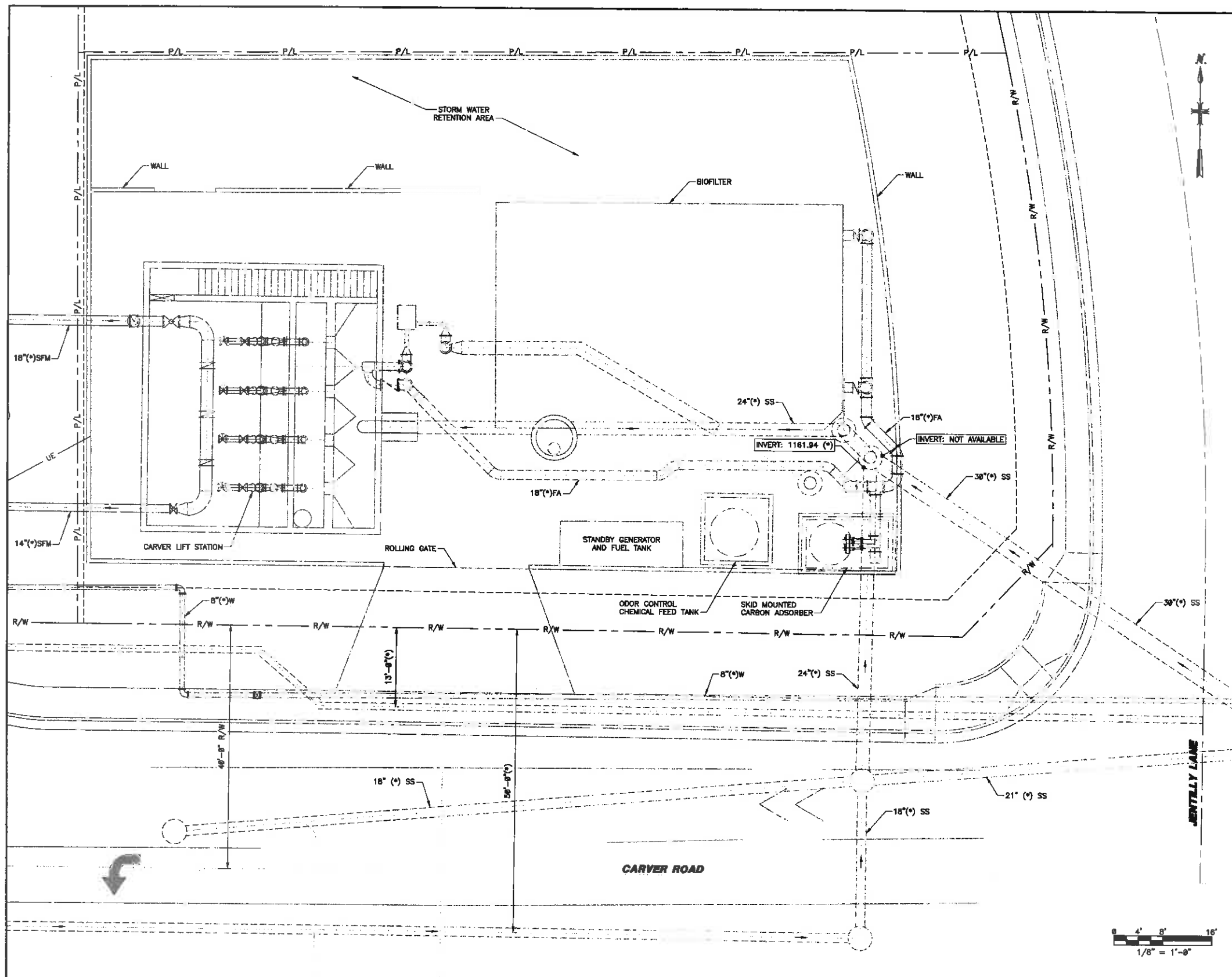
DEPARTMENT OF PUBLIC WORKS
CITY OF TEMPE
DIVISION OF ENGINEERING

P.O. BOX 5002, TEMPE, AZ 85280

SURVEYED: NONE	DESCRIPTION: EXISTING SITE AERIAL	DATE: DATE
DESIGNED: ME	CAMELOT LIFT STATION	PROJECT NO. 3205841
DRAWN: CHUD	Tempe, Arizona	
CHECKED: TAV		
SCALE:	LIFT STATION ASSESSMENT	SHT 10 OF 18

3205841

10 of 18



CONSTRUCTION NOTES

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ABBREVIATIONS:

SS SANITARY SEWER
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 SD STORM DRAIN
 W WATER
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MARK	DATE	DESCRIPTION	BY

DEPARTMENT OF PUBLIC WORKS
 CITY OF TEMPE
 DIVISION OF ENGINEERING

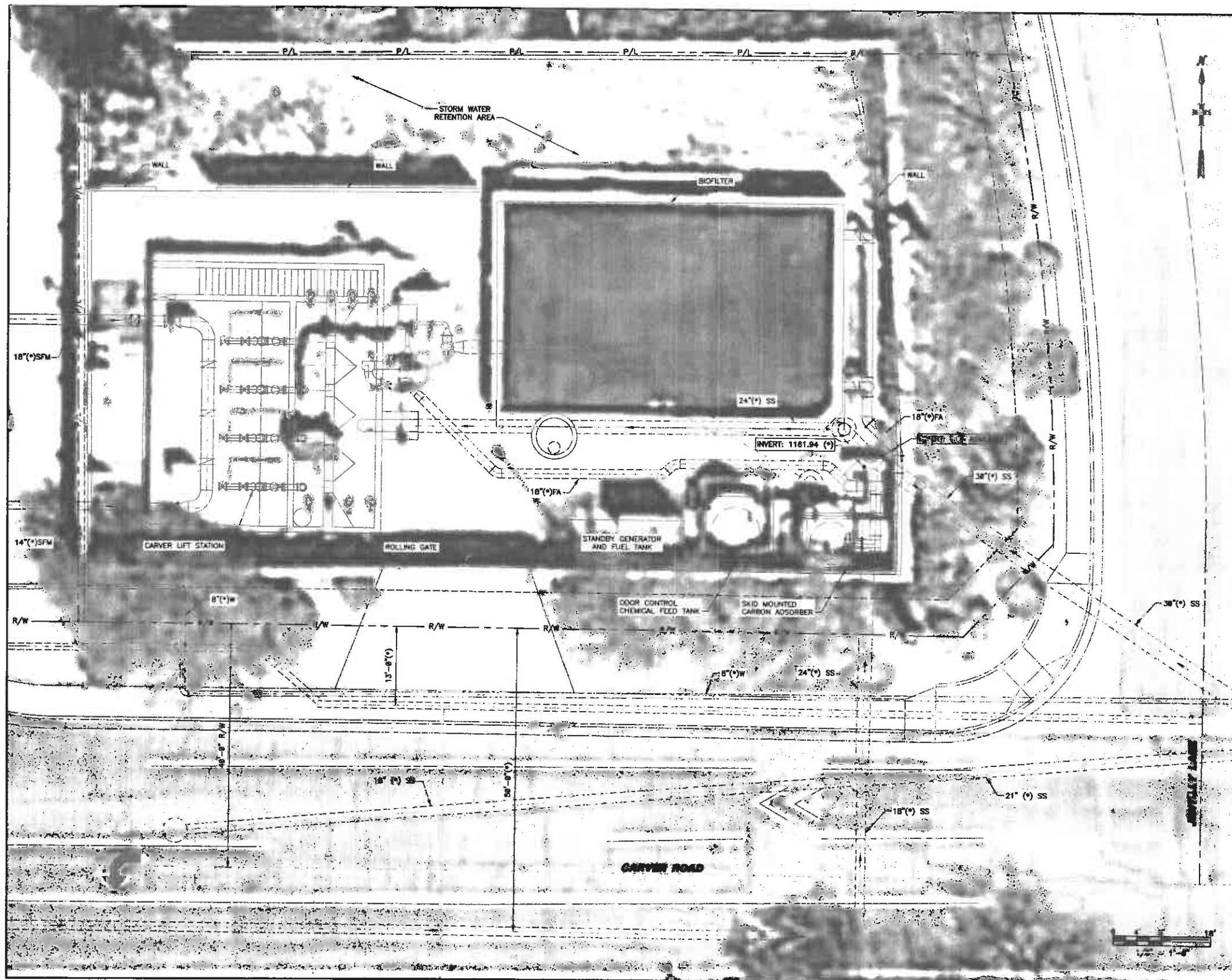
P.O. BOX 5002, TEMPE, AZ 85280

SURVEYED: NONE	DESCRIPTION: EXISTING SITE PLAN	DATE:
DESIGNED: ME	CARVER LIFT STATION	PROJECT NO. 3205841
DRAWN: CS/ADD	Tempe, Arizona	
CHECKED: TAV		
SCALE:	LIFT STATION ASSESSMENT	SHT 11 OF 18

0 4' 8' 16'
 1/8" = 1'-0"

3205841

11 of 18



CONSTRUCTION NOTES

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 SFM SANITARY FORCE MAIN
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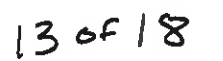
DEPARTMENT OF PUBLIC WORKS
 CITY OF TEMPE
 DIVISION OF ENGINEERING

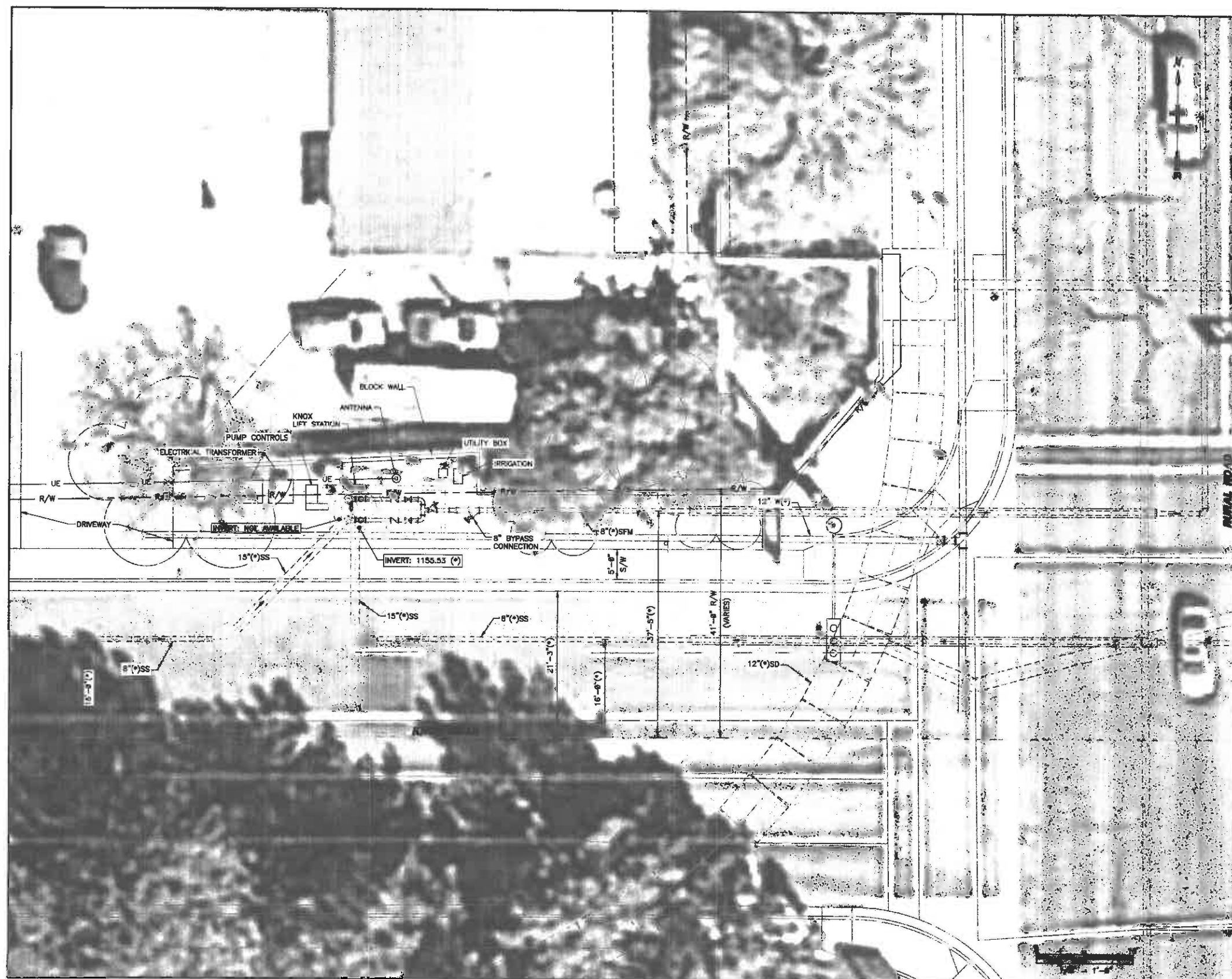
P.O. BOX 5002, TEMPE, AZ 85280

SURVEYED: NONE	DESCRIPTION: EXISTING SITE AERIAL	DATE:
DESIGNED: ME	CARVER LIFT STATION	PROJECT NO. 3205841
DRAWN: CBU/DD	Tempe, Arizona	
CHECKED: TAV		
SCALE:	LIFT STATION ASSESSMENT	SHT 12 OF 18

3205841

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CONSTRUCTION NOTES

(*) INDICATES DIMENSIONS, DISTANCES, COORDINATES OR ELEVATIONS TO BE SURVEYED AND FIELD VERIFIED BY THE CONTRACTOR PRIOR TO INITIATING ANY OF THE WORK.
 (**) INDICATES DIMENSIONS OR ELEVATIONS TO BE DETERMINED BASED UPON EQUIPMENT MANUFACTURER SELECTED.
 (R) INDICATES RESTRAINED JOINT.

- GENERAL NOTES:
1. CONTRACTOR SHALL INSTALL SHEETING, SHORING, AND/OR PIPE SUPPORTS TO FACILITATE COMPLETE PROTECTION AND CONTINUAL OPERATION OF ALL UTILITIES (AS SHOWN OR EXPOSED DURING CONSTRUCTION) WITHIN THE WORK AREA. COORDINATE REPLACEMENT OF ALL DAMAGED OR DISTURBED UTILITIES BY CONTRACTOR CREW OR ACTIVITIES ASSOCIATED WITH THIS PROJECT AS REQUIRED. INCORPORATE THIS EFFORT WITHIN THE ORIGINAL PROJECT SCHEDULE AND COST(S).
 2. ALL PIPING, JOINTS, FITTINGS, VALVES AND APPURTENANCES SHALL BE FULLY RESTRAINED.

LEGEND:

— R/W — RIGHT OF WAY
 — UE — UTILITY ELECTRICAL
 — G — UTILITY GAS
 — P/L — PROPERTY LINE

ABBREVIATIONS:

SS SANITARY SEWER
 SFM SANITARY FORCE MAIN
 SD STORM DRAIN
 W WATER
 FA FOUL AIR
 S/W SIDEWALK

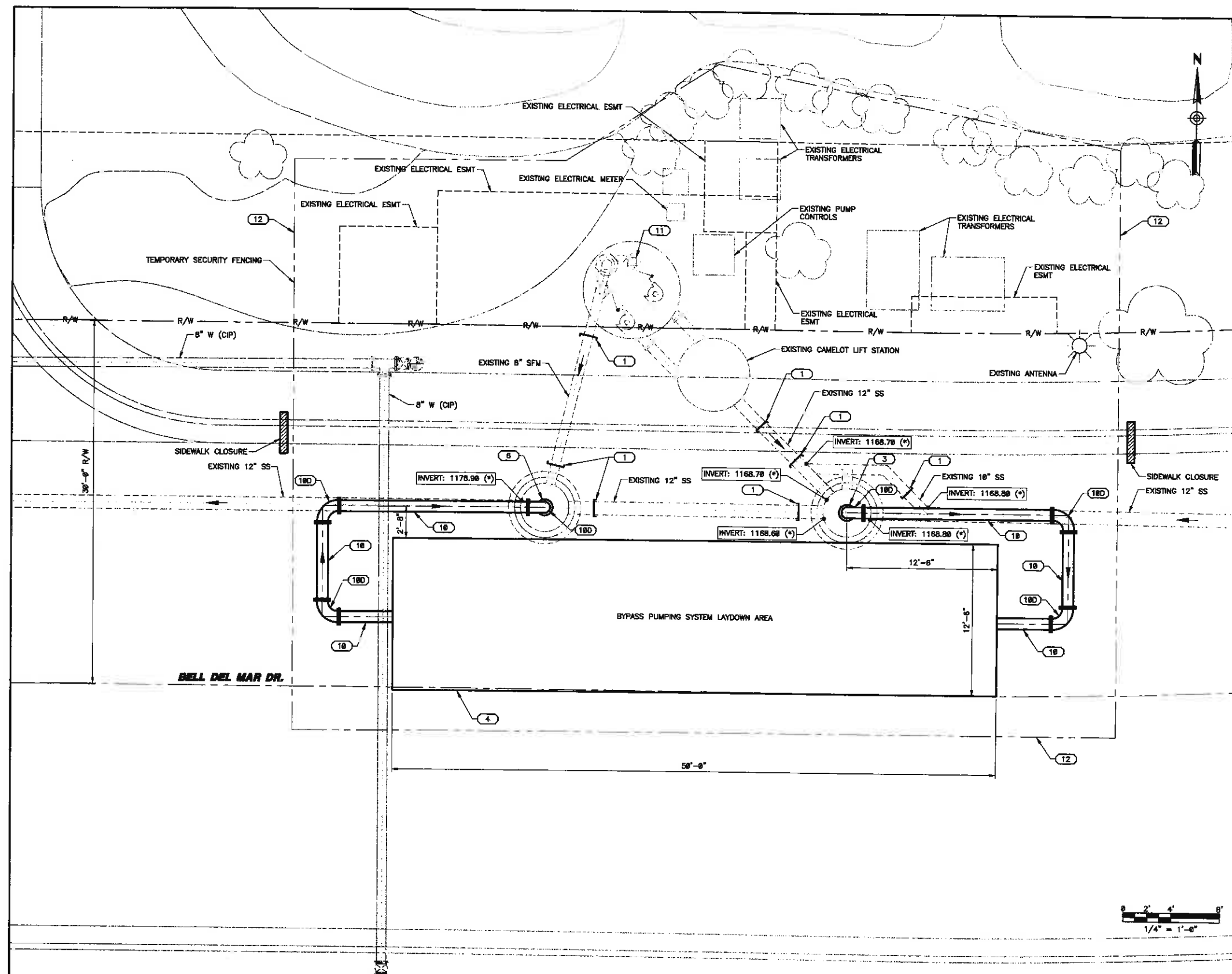


MARK	DATE	DESCRIPTION	BY

DEPARTMENT OF PUBLIC WORKS
 CITY OF TEMPE
 DIVISION OF ENGINEERING
 P.O. BOX 5002, TEMPE, AZ 85280

SURVEYED: NONE	DESCRIPTION: EXISTING SITE AERIAL KNOX LIFT STATION	DATE:
DESIGNED: ME	Tempe, Arizona	PROJECT NO. 3205841
DRAWN: CBU/DD		
CHECKED: TAV		
SCALE:	LIFT STATION ASSESSMENT	SHT 14 OF 18

3205841

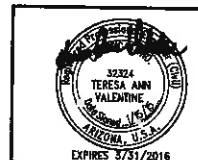


CONSTRUCTION NOTES

1. PROVIDE APPROPRIATE SIZE AND TYPE OF LINE STOPPAGE DEVICE SYSTEM. SUBMIT FOR APPROVAL.
3. PROVIDE BYPASS SUCTION CONNECTION AND PROVIDE AN AIR TIGHT COVER FOR THE EXISTING MANHOLE AT ALL TIMES.
4. PROVIDE TEMPORARY BYPASS PUMPING SYSTEM AND ALL NECESSARY TRAFFIC CONTROL IN ACCORDANCE WITH THE SPECIFICATIONS.
6. PROVIDE BYPASS PUMP SYSTEM DISCHARGE INTO EXISTING MANHOLE. PROVIDE AN AIR TIGHT COVER FOR THE EXISTING MANHOLES AT ALL TIMES.
10. PROVIDE 10" BYPASS PIPE, FULLY RESTRAINED JOINT LENGTH.
180. PROVIDE 10" - 90° BEND (FL&FLG).
11. CITY TO OPERATE VALVES AS NECESSARY TO ACCOMMODATE BYPASS PUMPING.
12. PROVIDE TEMPORARY SITE SECURITY FENCING TO EXTENTS SHOWN. SUBMIT TO OWNER FOR APPROVAL.

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 (**) INDICATES DIMENSIONS OR ELEVATIONS TO BE DETERMINED BASED UPON EQUIPMENT MANUFACTURER SELECTED.
 (R) INDICATES RESTRAINED JOINT.

- GENERAL NOTES:
1. CONTRACTOR SHALL INSTALL SHEETING, SHORING, AND/OR PIPE SUPPORTS TO FACILITATE COMPLETE PROTECTION AND CONTINUAL OPERATION OF ALL UTILITIES (AS SHOWN OR EXPOSED DURING CONSTRUCTION) WITHIN THE WORK AREA. COORDINATE REPLACEMENT OF ALL DAMAGED OR DISTURBED UTILITIES BY CONTRACTOR CREW OR ACTIVITIES ASSOCIATED WITH THIS PROJECT AS REQUIRED. INCORPORATE THIS EFFORT WITHIN THE ORIGINAL PROJECT SCHEDULE AND COST(S).
 2. ALL PIPING, JOINTS, FITTINGS, VALVES AND APPURTENANCES SHALL BE FULLY RESTRAINED.

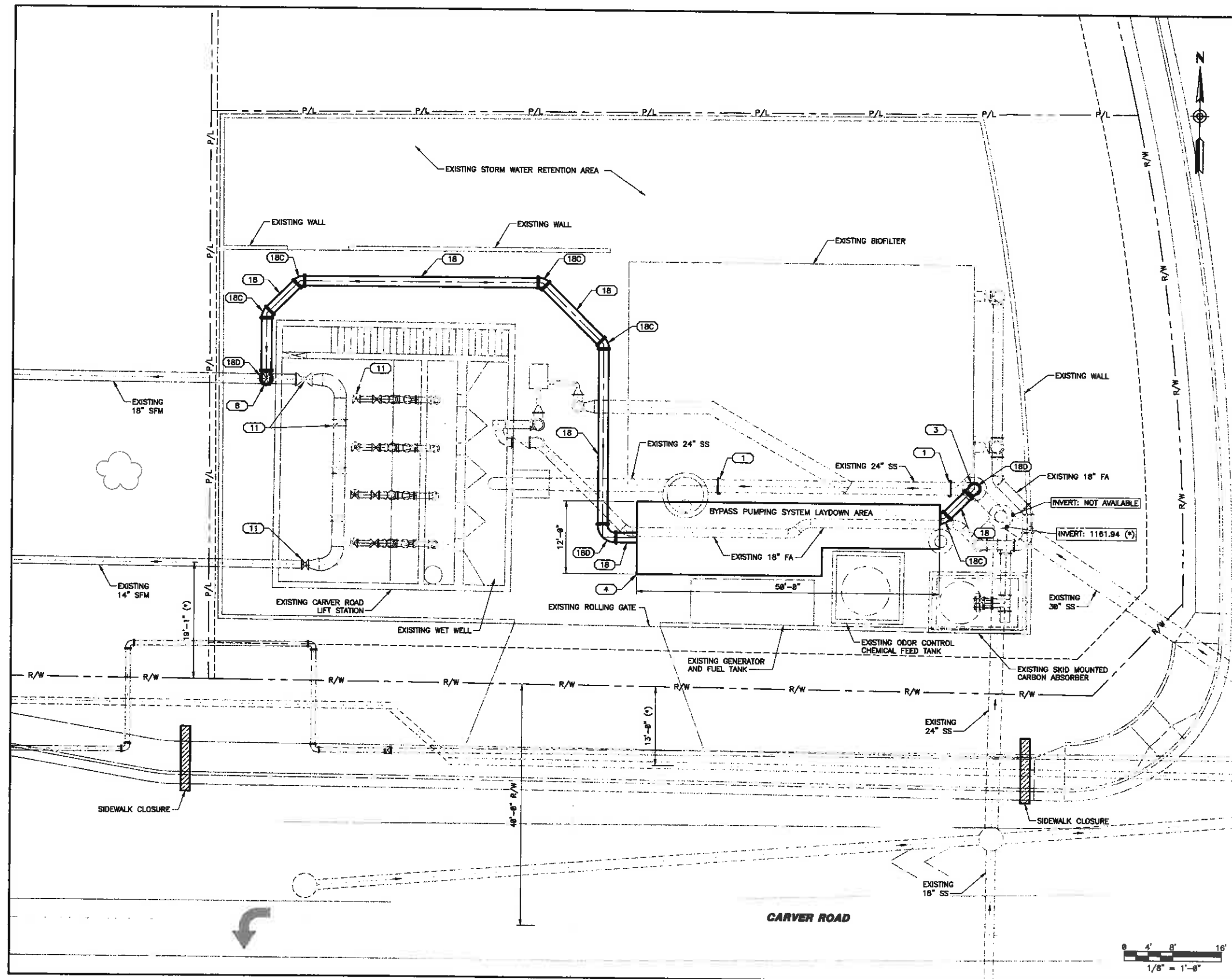


MARK	DATE	DESCRIPTION	BY

DEPARTMENT OF PUBLIC WORKS	
CITY OF TEMPE	
DIVISION OF ENGINEERING	
P.O. BOX 5002, TEMPE, AZ 85280	
SURVEYED: NONE	DATE:
DESIGNED: ME	DATE:
DRAWN: CB/JO	PROJECT NO. 3205841
CHECKED: TAV	Tempe, Arizona
SCALE:	LIFT STATION ASSESSMENT
	SHT 16 of 18

3205841

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CONSTRUCTION NOTES

- 1) PROVIDE APPROPRIATE SIZE AND TYPE OF LINE STOPPAGE DEVICE SYSTEM. SUBMIT FOR APPROVAL.
 - 3) PROVIDE BYPASS SUCTION CONNECTION AND PROVIDE AN AIR TIGHT COVER FOR THE EXISTING MANHOLE AT ALL TIMES.
 - 4) PROVIDE TEMPORARY BYPASS PUMPING SYSTEM AND ALL NECESSARY TRAFFIC CONTROL IN ACCORDANCE WITH THE SPECIFICATIONS.
 - 8) PROVIDE CONNECT BYPASS PUMP SYSTEM DISCHARGE TO EXISTING 18" BYPASS CONNECTION.
 - 11) CITY TO OPERATE VALVES AS NECESSARY TO ACCOMMODATE BYPASS PUMPING.
 - 18) PROVIDE 18" BYPASS PIPE, FULLY RESTRAINED JOINT LENGTH.
 - 18C) PROVIDE 18" - 45° BEND (FL&FLG).
 - 18D) PROVIDE 18" - 90° BEND (FL&FLG).
- (*) INDICATES DIMENSIONS, DISTANCES, COORDINATES OR ELEVATIONS TO BE SURVEYED AND FIELD VERIFIED BY THE CONTRACTOR PRIOR TO INITIATING ANY OF THE WORK.
- (**) INDICATES DIMENSIONS OR ELEVATIONS TO BE DETERMINED BASED UPON EQUIPMENT MANUFACTURER SELECTED.
- (R) INDICATES RESTRAINED JOINT.

GENERAL NOTES:

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2. ALL PIPING, JOINTS, FITTINGS, VALVES AND APPURTENANCES SHALL BE FULLY RESTRAINED.



MARK	DATE	DESCRIPTION	BY

DEPARTMENT OF PUBLIC WORKS
CITY OF TEMPE
DIVISION OF ENGINEERING
P.O. BOX 5002, TEMPE, AZ 85280

SURVEYED: NONE	DESCRIPTION: ENLARGED SITE PLAN	DATE: DATE
DESIGNED: ME	CARVER LIFT STATION	PROJECT NO. 3205841
DRAWN: CB/DO	Tempe, Arizona	SH1 17 OF 18
CHECKED: TAV		
SCALE: 1/8" = 1'-0"	LIFT STATION ASSESSMENT	

3205841

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